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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,123	12/10/2001	Wuu-Trong Shieh	MR2707-6	1762
4586	7590 03/23/2005		EXAMINER	
ROSENBERG, KLEIN & LEE			LAUTURE, JOSEPH J	
	3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			PAPER NUMBER
			2819	
		DATE MAILED: 03/23/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/006,123	SHIEH ET AL.			
		Examiner	Art Unit			
		Joseph Lauture	2819			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 10 December 2001.					
2a)□	This action is FINAL . 2b)⊠ TI	his action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5) <u>□</u> 6)⊠	4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 is/are rejected. 7) Claim(s) 4-12 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	ion Papers					
10)⊠	The specification is objected to by the Exami The drawing(s) filed on 10 December 2001 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction oath or declaration is objected to by the	s/are: a)⊠ accepted or b)⊡ object he drawing(s) be held in abeyance. See ection is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority (ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da				
3) 🔲 Inford	e of Dransperson's Patent Drawing Review (P10-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	_	atent Application (PTO-152)			

DETAILED ACTION

Specification

The application has not been checked to the extent necessary to determine the presence of all possible typographical and grammatical errors. Applicant's cooperation is requested in correcting any errors of which he/she may become aware in the application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over the provided prior art of figure (1) in view of Huang (US 5,631,647).

The provided prior art of figure (1) teaches a speech synthesizer comprising: a signal transform unit (102) for receiving and transforming a series of digital speech codes to be an analog speech signal with its negative half cycles inverted; a volume control unit for receiving a control signal and generating a control bias.

The prior art provided teaches the essential features of the claimed invention as set forth above except for a current output unit that receives an analog signal and outputs its positive and negative cycles currents, and a method wherein an MSB of the digital signal is used to control the conversion. However, Huang teaches in figure (5) a digital-to-analog converter system that can be used in a synthesizer (See column 4,

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lines 36-37), the converter having a current output unit (54) that includes a first and a second signal output terminal for receiving the analog signal and outputting its positive and negative cycles currents (See column 3, lines 37-39) from said first and second output terminals, wherein a Most Significant Bit (T4) of the digital signal is used to control the transformation of the signal. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Huang into the prior art provided to improve system performance and reliability because that would be cost-efficient (See column 1, lines 66-67).

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Allowable Subject Matter

Claims 4-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Lauture, whose telephone number is (571) 272-1805. The examiner can normally be reached Monday thru Friday between 9:30 am and 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Tokar can be reached at (571) 272-1812. The fax number for the organization to which this application is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571) 272-1562.

Joseph Lauture Group: 2819

Date: 03/17/2005

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